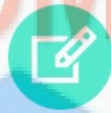
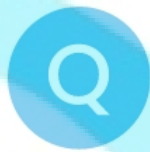


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## QUIZZES

Practice Test-1(s and p Block Elements)



10 Questions



7 min

Topics

Periodic Trends in Physical Properties

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 57



1/10



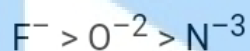
7 min



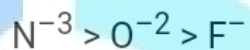
Hint

Q : The correct order of ionic radius is

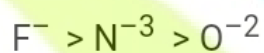
A



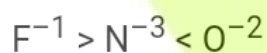
B



C



D



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 53



2/10



7 min



Hint

Q : Which is an incorrect order of atomic radii

A

Mg > Sr

B

Be > C

C

Al > S

D

K > Ar

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 50



3/10



7 min



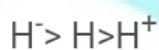
Hint

Q : Which of the following order of ionic radii is correct

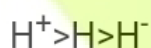
A



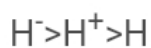
B



C



D



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 47



4/10



7 min



Hint

Q : Which atom has the smallest size



C



F



He



N

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 43



5/10



7 min



Hint

Q : For which molecule the bonding pair of electrons is equally shared between the atoms?

A

HF

B

HCl

C

H<sub>2</sub>

D

BF<sub>3</sub>

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 39



6/10



7 min



Hint

Q : An element with highest first ionization energy

A

Nitrogen

B

Boron

C

Oxygen

D

Beryllium

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 36



7/10



7 min



Hint

Q : Which factor does not effect ionization energy across the period

A

Number of shell

B

Nuclear Charge

C

Nature of orbital

D

Both A & C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



06 : 31



8/10



7 min



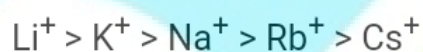
Hint

Q : Which of following is a correct order of degree of hydration in alkali metal ions

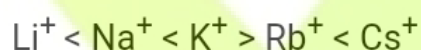
A



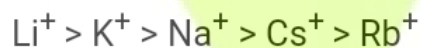
B



C



D



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 29



9/10



7 min



Hint

Q : Select the correct increasing order of melting point of alkaline earth metals

A

Be > Mg > Ca > Sr

B

Be > Ca > Sr > Mg

C

Mg > Be > Ca > Sr

D

Mg > Sr > Ca > Be

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 26



10/10



7 min



Hint

Q : Which of the following is shows maximum electrical conductance:

A

Na

B

Al

C

Mg

D

All of these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10



## QUIZ RESULT

Practice Test-1(s and p Block Elements)



10



7 min



01-May-2021



0 sec



0/10



0.0%

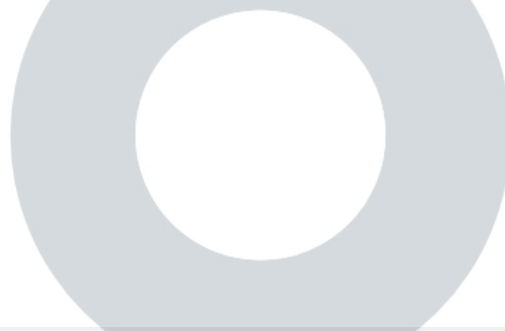
SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





## Practice Test-1(s and p Block Elements)



Correct



Unattempted



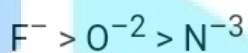
Incorrect



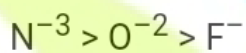
1/10

Q : The correct order of ionic radius is

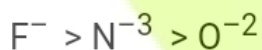
A



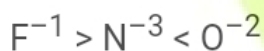
B



C



D



Explanation

Along the period anionic radius decreases from left to right



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



2/10

Q : Which is an incorrect order of atomic radii



Mg > Sr



Be > C



Al > S



K > Ar

Explanation

Atomic radii decrease from left to right and increase from top to bottom.



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



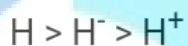
Incorrect



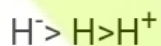
3/10

Q : Which of the following order of ionic radii is correct

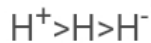
A



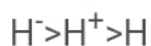
B



C



D



Explanation

SAEED MDCAT TEAM

Anion is greater and cation smaller than its parent atom.



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



4/10

Q : Which atom has the smallest size

A

C

B

F

C

He

D

N

Explanation

Less no. of shells in He than other



SAEEDMDCAT

1

2

3

4

5

6

7





## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



5/10

Q : For which molecule the bonding pair of electrons is equally shared between the atoms?

A

HF

B

HCl

C

H<sub>2</sub>

D

BF<sub>3</sub>

Explanation

In H<sub>2</sub> molecule both atoms have same electronegativity



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



6/10

Q : An element with highest first ionization energy

A

Nitrogen

B

Boron

C

Oxygen

D

Beryllium

Explanation

Along the period IE increases from left to right but there are abnormal trends

$V A > VI A, II A > III A$

Due to stable electronic configuration

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



7/10

Q : Which factor does not effect ionization energy across the period



Number of shell



Nuclear Charge



Nature of orbital



Both A & C

Explanation

SAEED MDCAT TEAM

In period number of shell and shielding effect will remain constant



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



8/10

Q : Which of following is a correct order of degree of hydration in alkali metal ions



$\text{Li}^+ > \text{Na}^+ > \text{K}^+ > \text{Rb}^+ > \text{Cs}^+$



$\text{Li}^+ > \text{K}^+ > \text{Na}^+ > \text{Rb}^+ > \text{Cs}^+$



$\text{Li}^+ < \text{Na}^+ < \text{K}^+ > \text{Rb}^+ < \text{Cs}^+$



$\text{Li}^+ > \text{K}^+ > \text{Na}^+ > \text{Cs}^+ > \text{Rb}^+$

Explanation

as size increases down the group degree of hydration decreases.



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## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



9/10

Q : Select the correct increasing order of melting point of alkaline earth metals

A

Be > Mg > Ca > Sr

B

Be > Ca > Sr > Mg

C

Mg > Be > Ca > Sr

D

Mg > Sr > Ca > Be

Explanation

In alkaline earth melting point decrease top to bottom due to increasing size but Mg show abnormal trend due close hexagonal packing



## Practice Test-1(s and p Block Elements)



Correct



Unattempted



Incorrect



10/10

Q : Which of the following is shows maximum electrical conductance:

A

Na

B

Al

C

Mg

D

All of these

Explanation

SAEED MDCAT TEAM

Electrical conductance increases from IA to IIIA.



SAEEDMDCAT

4

5

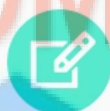
6

7

8

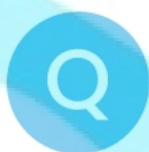
9

10



## QUIZZES

### Practice Test-2(s and p Block Elements)



10 Questions



7 min

#### Topics

Group 1A Elements (Alkali Metals), Group 2 Elements (Alkaline earth metals), Reactions of Group 1A with Water, Oxygen and Chlorine, Reactions of Group IIA with Water, Oxygen and Nitrogen, Reactions of Period 3 Elements with Water, Oxygen and Chlorine

SAEED MDCAT

Start Quiz

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Electronic configuration of alkali metals is\_\_\_\_\_

A

$ns^2, np^3$

B

$ns^2, np^1$

C

$ns^2, np^0$

D

$ns^1$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



06 : 54



2/10



7 min



Hint

Q : One of the following is least reactive among following

A

Li

B

Na

C

K

D

Cs

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 51



3/10



7 min



Hint

Q : One of the following will form superoxide when burnt in air

A

Li

B

Na

C

K

D

Be

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 49



4/10



7 min



Hint

Q : Which one of the following is most basic oxide

A

BeO

B

MgO

C

SrO

D

CaO

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 46



5/10



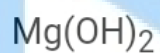
7 min



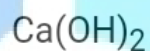
Hint

Q : Which IIA hydroxide decomposes most easily

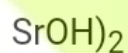
A



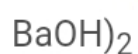
B



C



D



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 44



6/10



7 min



Hint

Q : Hydroxide of which Alkaline earth metal cannot be prepared by direct reaction with water.

A

Be

B

Ca

C

Sr

D

Ba

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 40



7/10



7 min



Hint

Q :  $M + O_2 \rightarrow MO_2$  .The metal M is



Be



Mg



Ca



Ba

**SAEED MDCAT**

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 37



8/10



7 min



Hint

Q : Burning of Be in air requires

A

600°C

B

800°C

C

1400°C

D

200°C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 34



9/10



7 min



Hint

Q : Which one of the following from 3<sup>rd</sup> period doesn't react with water

A

Be

B

Ca

C

Na

D

Ar

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10



06 : 32



10/10



7 min



Hint

Q : Which of the following element of 3<sup>rd</sup> period and group III does not react with water

A

B

B

Mg

C

Al

D

In

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

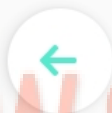
6

7

8

9

10



## QUIZ RESULT

Practice Test-2(s and p Block Elements)



10



7 min



01-May-2021



0 sec



0/10



0.0%

SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



1/10

Q : Electronic configuration of alkali metals is\_\_\_\_\_

A

$ns^2, np^3$

B

$ns^2, np^1$

C

$ns^2, np^0$

D

$ns^1$

Explanation

Electronic configuration of alkali metals is  $ns^1$ .



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



2/10

Q : One of the following is least reactive among following



Li



Na



K



Cs

Explanation

SAEED MDCAT TEAM

Due to high I.E Li is least reactive.



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



3/10

Q : One of the following will form superoxide when burnt in air

A

Li

B

Na

C

K

D

Be

Explanation

Potassium will form superoxide among all given options, due to high reactivity.



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



4/10

Q : Which one of the following is most basic oxide

A

BeO

B

MgO

C

SrO

D

CaO

Explanation

In group IA & IIA basic character of their oxides increases down the group.



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



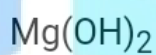
Incorrect



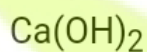
5/10

Q : Which IIA hydroxide decomposes most easily

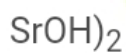
A



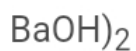
B



C



D



Explanation

Ease of decomposition is inversely related to cationic size inc. order of cationic size



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



6/10

Q : Hydroxide of which Alkaline earth metal cannot be prepared by direct reaction with water.



Be



Ca



Sr



Ba

Explanation

SAEED MDCAT TEAM

Be does not react with water



SAEEDMDCAT

1

2

3

4

5

6

7





## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



7/10

Q :  $M + O_2 \rightarrow MO_2$  .The metal M is

A

Be

B

Mg

C

Ca

D

Ba

Explanation

$MO_2$  = Peroxide Ba gives peroxide in air at  $500^\circ - 600^\circ C$



SAEEDMDCAT

1

2

3

4

5

6

7



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



8/10

Q : Burning of Be in air requires



600°C



800°C



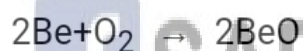
1400°C



200°C

Explanation

Be is the least reactive member of IIA and burns at 800°C



4

5

6

7

8

9

10



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



9/10

Q : Which one of the following from 3<sup>rd</sup> period doesn't react with water

A

Be

B

Ca

C

Na

D

Ar

Explanation

SAEED MDCAT TEAM

Argon does not react directly with water.



SAEEDMDCAT

4

5

6

7

8

9

10



## Practice Test-2(s and p Block Elements)



Correct



Unattempted



Incorrect



10/10

Q : Which of the following element of 3<sup>rd</sup> period and group III does not react with water

A

B

B

Mg

C

Al

D

In

Explanation

SAEED MDCAT TEAM

Al does not react with water, its oxides are amphoteric



SAEEDMDCAT

4

5

6

7

8

9

10